# Nathan Gardner

nathan.gardner025@gmail.com \* www.linkedin.com/in/snathangardner \* nathan-gardner.github.io

## **Objective**

I am interested in computer programming and algorithmic problem solving. I am interested in positions in which I can challenge myself and learn new skills while contributing as a member of a team.

#### **Education**

# **Bachelor of Science in Computer Engineering**

Graduation Expected May 2023

Tennessee Technological University - Cookeville, TN

• Dean's List: All 5 semesters attended

## **Engineering Experience**

# Resilient Autonomous Networked Control Systems Laboratory - Cookeville, TN

Research Assistant August 2021 - Present

- Team testing for vulnerabilities in autonomous vehicle control systems
- Interfacing Camera, LIDAR, RADAR technologies
- Focused on injecting faults to test current systems against false data injection attacks

#### Continental Tire - Mount Vernon, IL

# **Plant Engineering Intern**

May 2021 - August 2021

# Controls and Drives (Digital Services) Department

- Developed monitoring software using C# .NET core for use in manufacturing process monitoring
- Experience in development operations deployment: docker containerization of software for use on local server for 24/7 data monitoring
- · Assisted in networking and programming related tasks and helped ensure the plant ran effectively

## Tennessee Tech University - Cookeville, TN

## Teaching Assistant, Unix Laboratory

January 2021 - May 2021

- · Assisting instructor in course delivery, including topics such as BASH scripting and the Linux/Unix operating system
- Assisting students with questions on weekly Unix-based labs

#### **Organizations**

# Institute of Electrical and Electronics Engineers (IEEE), TTU Chapter - Cookeville, TN

Officer, Social Chair

May 2021 - Present

- Plan IEEE social events on campus and network with community members the spread the word about the IEEE mission on campus
- Foster community and involvement on campus around IEEE and the electrical and computer engineering department
- IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity

Officer, Treasurer

August 2020 - May 2021

- Responsible for all monetary bookkeeping within the club
- Meet professionals in various subfields of engineering

**Active Member** 

August 2019 - Present

## **Skills**

• C/C#/C++ • Linux/Unix systems • Git • VHDL • MATLAB •

#### **Relevant Coursework**

• Electric Circuits I & II • Electronics I • Fund. of Computer Design (Computer Architecture) • Computer Networks • Signals and Systems • Microcomputer Systems • Embedded System Design • Digital System Design • Data Structures and Algorithms • Design & Analysis of Algorithms • Calculus I & II & III • Probability and Statistics •